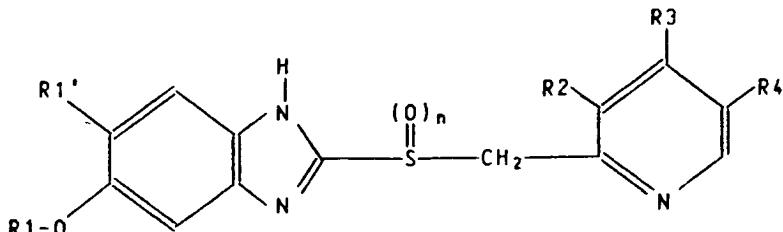


WHAT IS CLAIMED IS:

1. A dialkoxyypyridine of formula I

70590\*



(I),

wherein

1. R1 is 1-3C-alkyl which is completely or predominantly substituted by fluorine, or chlorodifluoromethyl;

5 R1' is a hydrogen atom, halo, trifluoromethyl, 1-3C-alkyl, or 1-3C-alkoxy which is ~~unsubstituted or~~ ~~optionally~~ completely or predominantly substituted by fluorine; or

10 R1 and R1', together with the oxygen atom to which R1 is bonded, is 1-2C-alkylenedioxy which is optionally completely or partly substituted by fluorine, or chlorotrifluoroethylenedioxy;

R3 is 1-3C-alkoxy;

one of R2 and R4 is 1-3C-alkoxy and the other is a hydrogen atom or 1-3C-alkyl; and

15 n is 0 or 1;

or a salt thereof.

2. A compound according to claim 1 wherein

R1 is 1-3C-alkyl which is completely or predominantly substituted by fluorine, or chlorodifluoromethyl;

R1' is a hydrogen atom, halo, trifluoromethyl, 1-3C-alkyl, or 1-3C-alkoxy which is ~~unsubstituted or~~ ~~optionally~~ completely or predominantly substituted by fluorine;

R3 is 1-3C-alkoxy;

one of R2 and R4 is 1-3C-alkoxy and the other is a hydrogen atom or 1-3C-alkyl; and

10 n is 0 or 1, or

Cl Q 57

a salt thereof.

3. A compound according to claim 1 wherein,

PO 40 R1 and R1', together with the oxygen atom to which R1 is bonded, is  $1\frac{1}{4}$ -2C-alkylenedioxy which is ~~unsaturated or~~ ~~optionally~~ completely or partly substituted by fluorine, or  
5 chlorotrifluoroethylenedioxy,

PO L R3 is  $1\frac{1}{4}$ -3C-alkoxy;

one of R2 and R4 is  $1\frac{1}{4}$ -3C-alkoxy and the other is a hydrogen atom or a  $1\frac{1}{4}$ -3C-alkyl radical and

PO n is 0 or 1, or a salt thereof.

40 4. A compound according to claim 2, wherein R1' is a hydrogen atom and R1, R2, R3, R4 and n have their previously-ascribed meanings, or a salt thereof.

5 5. A compound according to claim 2 wherein R1 is 1,1,2,2-tetrafluoroethyl, trifluoromethyl, 2,2,2-trifluoroethyl, difluoromethyl or

40 chlorodifluoromethyl, R1' is a hydrogen atom, R3 is methoxy, one of R2 and R4 is methoxy and the other is a hydrogen atom or methyl and n is 0 or 1, or a salt thereof.

6. A compound according to claim 2, wherein R1 is 1,1,2,2-tetrafluoroethyl, trifluoromethyl,

40 2,2,2-trifluoroethyl or difluoromethyl, R1' is a hydrogen atom, R3 is methoxy, one of R2 and R4 is methoxy and the other is a hydrogen atom or methyl and n is 0 or 1, or a salt thereof.

5 7. A compound according to claim 4, 5, or 6, wherein R2 is a hydrogen atom or methyl and R3 and R4 are methoxy, or a salt thereof.

8. A compound according to claim 4, 5 or 6, wherein R4 is a hydrogen atom and R2 and R3 are methoxy, or a salt thereof.

40 9. A compound according to claim 3, wherein R1 and R1', together with the oxygen atom to which R1 is bonded, are  $1\frac{1}{4}$ -2C-alkylenedioxy, and R2, R3, R4 and n have the meanings given in claim 3, or a salt thereof.

40 10. A compound according to claim 3, wherein R1 and R1', together with the oxygen atom to which R1 is bonded, are

Cl  
Rg  
JF

60

methylenedioxy or ethylenedioxy, and R2, R3, R4 and n have the meanings given in claim 3, or a salt thereof.

40 11. A compound according to claim 3, wherein R1 and R1', together with the oxygen atom to which R1 is bonded, are 1-2C-alkylenedioxy which is completely or partly substituted by fluorine and R2, R3, R4 and n have the meanings given in claim 3, or a salt thereof.

5

40 12. A compound according to claim 3, wherein R1 and R1', together with the oxygen atom to which R1 is bonded, are difluoromethylenedioxy or 1,1,2-trifluoroethylenedioxy and R2, R3, R4 and n have the meanings given in claim 3, or a salt thereof.

40 13. A compound according to claim 3 wherein R1 and R1', together with the oxygen atom to which R1 is bonded, are difluoromethylenedioxy or methylenedioxy and R2, R3, R4 and n have the meanings given in claim 3, or a salt thereof.

14. A compound according to claims 9, 10, 11, 12 or 13, wherein R2 is a hydrogen atom or methyl, R3 is methoxy, R4 is methoxy, or a salt thereof.

15. A compound according to claims 9, 10, 11, 12 or 13, wherein R2 is methoxy, R3 is methoxy, and R4 is a hydrogen atom or methyl, or a salt thereof.

16. A compound according to claims 9, 10, 11, 12, or 13, wherein R2 is methoxy, R3 is methoxy and R4 is methyl, or a salt thereof.

B 17. A compound according to ~~one of claims 1 to 16~~, wherein P n is 0, or an acid addition salt thereof.

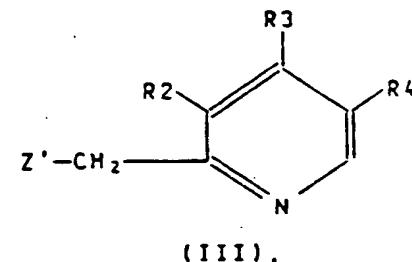
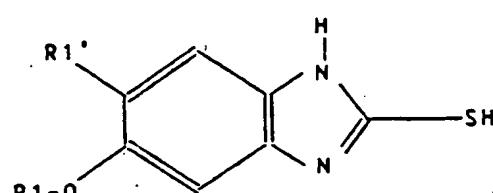
B 18. A compound according to ~~one of claims 1 to 16~~, wherein P n is 1, or a salt thereof with a base.

8.9 19. A compound <sup>according to claim 1</sup> selected from the group consisting of 8 2-[(4,5-dimethoxy-2-pyridyl)methylsulfinyl]-5-trifluoro- 9 methoxy-1H-benzimidazole, 2-[(4,5-dimethoxy-3-methyl-2-pyridyl)methylsulfinyl]-5-trifluoromethoxy-1H- 5 benzimidazole, 2-[(4,5-dimethoxy-2-pyridyl)-methysulfinyl]-5-(1,1,2,2-tetrafluoroethoxy)-1H- 8 benzimidazole, 2,2-difluoro-6-[(4,5-dimethoxy-2-pyridyl)methylthio]-5H-[1,3]-dioxolo-

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C R S

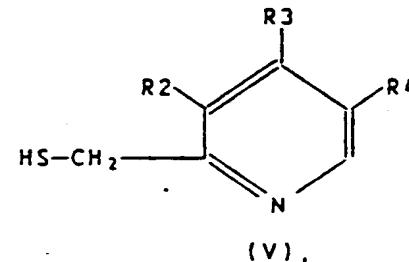
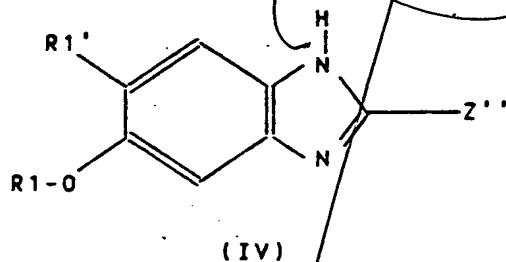
10 8,9,10 [4,5-f]benzimidazole and 2,2-difluoro-6-[(4,5-f)  
9,8,7 dimethoxy-2-pyridyl)methylsulfinyl]-5H-[1,3]-dioxolo-  
8,9 [4,5-f]benzimidazole, or a salt thereof.

20. A process for the preparation of a dialkoxyypyridine according to claim 1, or a salt thereof, which comprises  
a) reacting a mercaptobenzimidazole of formula II with a picoline derivate III

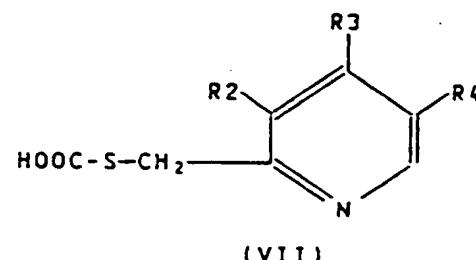
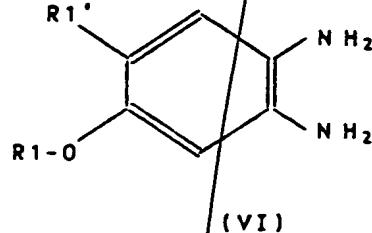


or

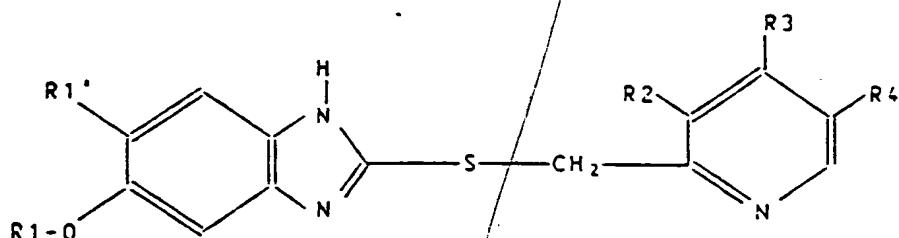
b) reacting a benzimidazole of formula IV with a mercaptopicoline V



10 or c) reacting an o-phenylenediamine of formula VI with a formic acid derivative VII

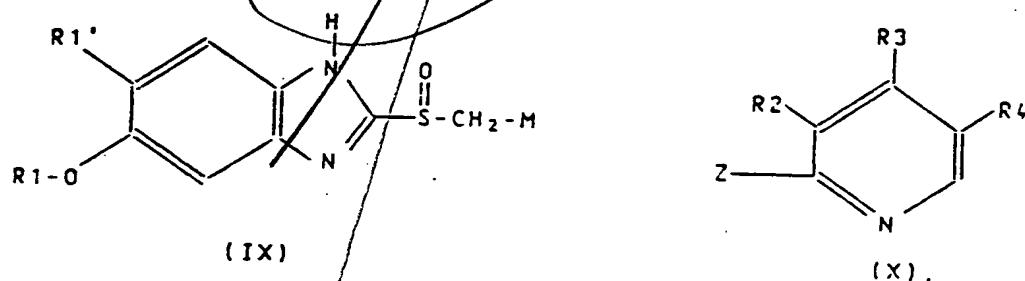


B 15 and, if appropriate, then oxidizing and/or converting into a salt of a 2-benzimidazolyl 2-pyridylmethylsulfide of formula VIII obtained according to (a), (b) or (c)



or

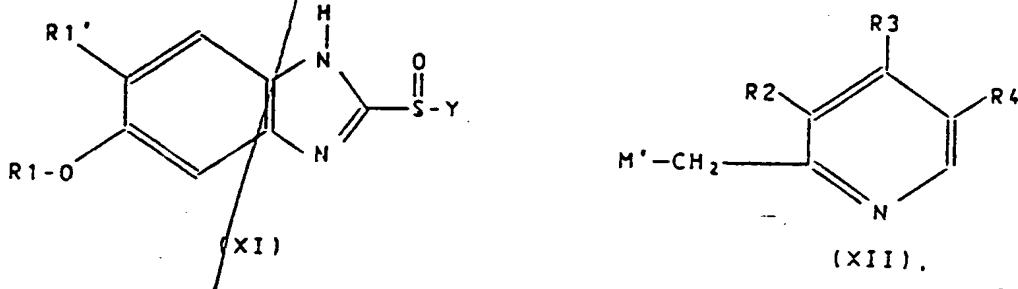
d) reacting a benzimidazole of formula IX with a pyridine derivative X



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or

e) reacting a sulfinyl derivative of formula XI with a 2-picoline derivative XII



Co Rg St

25 and, optionally converting the products into salts, Y, Z, Z' and Z'' being suitable leaving groups, M being an alkali metal atom (Li, Na or K), M' being an equivalent of a metal atom and R1, R1', R2, R3, R4 and n having the meanings given in claim 1.

20 21. A pharmaceutically - acceptable compound which is a dialkoxyypyridine according to ~~one of claims 1 to 19~~ or a salt thereof.

22. A medicament composition comprising an active ingredient and a pharmaceutical auxiliary, the active ingredient comprising from 0.1 to 95 percent by weight of at least one pharmaceutically - acceptable compound according to claim 21.

23. A composition of claim 22 further comprising a known compound which inhibits gastric acid secretion.

27 24. A method for treatment or prophylaxis of illness based on excessive secretion of hydrochloric acid by the stomach which comprises administering ~~an effective amount of~~ a compound according to claim 21 to a mammal suffering from said illness.

25. A method for providing protective action for the stomach and intestines which comprises administering ~~an effective amount of~~ a compound according to claim 21 to a mammal.

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6/10/85

June 10 1985 B. Chol

June 10, 1985 Greg Rainey

June 10, 1985 Erast Sturm